



(REFERENCE COPY - Not for submission)

# FCC Form 399: Incentive Auction Relocation Reimbursement Fund System

File Number: **0000027639** | FRN: **0002940336** | Facility ID: **49421** |  
Repack Channel: **50 (UHF)** | Entity: **Broadcaster** | Filing Status: **Submitted**  
Date Submitted: **04/29/2019**

## Applicant Information

### Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
<b>NORTHEASTERN EDUCATIONAL TELEVISION OF OHIO, INC.</b>	1750 CAMPUS CENTER DRIVE	+1 (330) 677-4549	adennis@westernreservepublicmedia.org	Other
<b>Applicant Doing Business As:</b>	P.O. BOX 5191			
<b>NORTHEASTERN EDUCATIONAL TELEVISION OF OHIO, INC.</b>	KENT, OH 44240			
	United States			

## Reimbursement Contact Information

### Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

## Preparer Contact Information

### Preparer Contact Name and Information

Applicant	Address	Phone	Email
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<b>Robert Gehman</b> <i>ConsultingEngineer</i> <i>Kessler and Gehman</i> <i>Associates, Inc.</i>	Robert Gehman 507 NW 60 Street Suite D Gainesville, FL 32607 United States	+1 (352) 332-3157	bob@kesslerandgehman. com
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### Broadcaster Information and Transition Plan

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	No
Briefly describe transition plan	Replace transmitter, antenna and existing line. Acquire interim antenna and line for continued operation during construction and duration of the assigned phase. Map and analyze tower; design and implement modifications if required. See attached.

### Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Primary  
Transmitter**

**Existing Transmitter Information**

Section	Question	Response
<b>Existing Transmitter Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
<b>Existing Transmitter Manufacturer and Type</b>	Manufacturer	
	Model	CTT-U-DCX-1H
	Year	2004
	Type	Inductive Output Tube
	IOT Power Type	Single
	Description	
	Power capacity	20 kw
	Solid State Cooling	
	Solid State Power Capacity	
	Other Transmitter Type	

**Primary  
Transmitter**

**New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Description of Use	
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-30
	Transmitter Type	Solid state
	IOT Power Type	
	Other	
	Power capacity	
	Solid State Cooling	Liquid
	Solid State Power Capacity	19.2 kw
	Other Transmitter Type	
	Justification for New Transmitter	The manufacturer of the existing IOT transmitter advises that the transmitter cannot be re- tuned to the assigned channel. See attachment.

**Primary  
Transmitter**

**Other Transmitter Costs**

Section	Question	Response
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<b>Electrical Service</b>	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	Yes
	Power	150 kVA
	Rigid Conduit and Wiring	Yes
	Size	3 inches
	Length	100.0 feet
	Other Electrical Service	No
	Description	
<b>HVAC Service</b>	Does the replacement transmitter require HVAC Service?	No
	Type	
	Size	
	Other Size	
<b>Transmitter Building Addition/Modification or Leasehold Improvement</b>	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	
<b>Channel 14 Costs</b>	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	
	Number of Days	

**Primary Transmitter**      **Other Transmitter Cost Not Listed**

Name	Description
<b>Additional Interior RF System</b>	Interior RF System Existing Transmitter to Interim Transmission line

**Antennas**

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Primary  
Antenna**

**Existing Antenna Information**

Section	Question	Response
<b>Existing Antenna Description</b>	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
<b>Existing Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Top-mount single
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted coaxial
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	250.00 kW

Manufacturer	
Model	TFU- 28GTH-R 04 DC
Year	2004



## Primary Antenna

### New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top-mount single
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Slotted coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	150.00 kW
	Manufacturer	
	Model	TFU-20ETT /VPR O4

Year	2019
Justification for New Antenna	The existing primary antenna is a single channel slotted coaxial which cannot accommodate the assigned channel.

## Primary Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches
<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	No
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Primary  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Interim  
Antenna**

**New Antenna Costs**

Section	Question	Response
<b>New Antenna Description</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
<b>New Antenna Manufacturer and Type</b>	Class	Full Power
	Mounting	Side-mount
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Slotted coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power) .....	250.00 kW
	Manufacturer	
	Model	ALP24M2- HSOC-24
	Year	2018

	Justification for New Antenna	An interim antenna is necessary to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.
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## Interim Antenna

### Other Antenna Costs

Section	Question	Response
<b>Combiner for Shared Antenna</b>	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
<b>Elbow Complex</b>	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches

<b>Side Mount Brackets</b>	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
<b>Pattern Scatter Analysis</b>	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
<b>Sweep Test</b>	Do you require the sweep testing of transmission line and antenna?	Yes

**Interim  
Antenna**

**Other Antenna Cost Not Listed**

Information not provided.

**Transmission  
Line**

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

**Primary  
Transmission  
Line**

**Existing Transmission Line**

Section	Question	Response
<b>Existing Transmission Line Description</b>	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
<b>Existing Transmission Line Manufacturer and Type</b>	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 ½ '
	Other Segment Length	
	Number of parallel runs	1
	Length	940 feet per run



Primary  
Transmission  
Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	19 ¾ '
	Other Segment Length	
	Number of parallel runs	1
	Length	940 feet per run
	Justification for New Transmission Line	The existing 19.5' sections are not the size recommended by the manufacturer.

Primary  
Transmission  
Line

Other Transmission Line Expenses Not Listed

Name	Description
Sweep Tests	Sweep tests to proof the new line

**Interim  
Transmission  
Line**

**New Transmission Line**

Section	Question	Response
<b>New Transmission Line Costs</b>	Use	Interim
	Description of Use	N/A
	Change Type	Purchase New
	Type	Flexible Air
	Diameter	5 inches
	Segment Length	N/A
	Other Segment Length	
	Number of parallel runs	1
	Length	840 feet per run
	Justification for New Transmission Line	An interim transmission line is necessary for the interim antenna to keep station on the air during primary antenna replacement and for the duration of the assigned phase. Station will attempt to rent if renting is available at time of acquisition.

Interim Transmission Line	Other Transmission Line Expenses Not Listed
	Information not provided.

**Tower  
Equipment  
And  
Rigging  
Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

**Primary  
Tower**

**Existing Tower**

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Is this tower consider Complex?	No
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	Yes
	Is tower documented for structural analysis?	No
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1018464
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	41° 04' 58.0" N-
	Longitude (NAD83)	081° 38' 01.0" W-
	Overall Structure Height	924.86 feet
	Support Structure Height	871.05 feet
	Ground Elevation Above Mean Sea Level (AMSL)	1120.07 feet
	Structure Type	TOWER - Free Standing or Guyed Structure

	Tower Owner	NORTHEASTERN EDUCATIONAL TV OF OHIO INC
	Date Constructed	08/20/1996

**FM, AM or TV radio  
broadcasters. Facility ID's,  
Call Signs and Services of  
other broadcast stations with  
whom the tower is shared**

Facility ID	Call Sign	Service
66613	WZIP	FM
34045	WKSU	FM
43872	WQMX	FM

#### Other Types of Users

Users
Various microwave

#### Primary Tower

#### Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

#### Primary Tower

#### Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A

<b>Helicopter Services Required</b>	Are helicopter services required?	Yes
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**Primary  
Tower**

**Other Tower Expenses Not Listed**  
Information not provided.

**Outside  
Professional  
Services  
Costs**

Section	Question	Response
<b>Outside Project Management Services</b>	Do you require outside project management services?	Yes
	Number of Hours	177
	Explanation	It will be necessary to schedule and coordinate multiple vendors, complete progress reports, and update Schedule 399. Station does not have available personnel or personnel trained in project management for such complex projects.
<b>Outside RF consulting Engineering Services</b>	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes

	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
<b>Attorney and Other Outside Consulting Services</b>	Prepare and file Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare and file Form FCC License to Cover Application	Yes
	For Auxiliary Facility	No
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	No
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
<b>RF Field Engineering Services</b>	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	No
	Additional Field Engineering Service	Yes



Number of Days	17
Justification	It will be necessary to plan the equipment, develop specifications for purchasing, and oversee multiple vendor RF projects. Station does not have available personnel or personnel trained in such services.

**Outside Professional Services Costs**      **Other Professional Services Expenses Not Listed**  
Information not provided.

## Other Expenses

Section	Question	Response
<b>AM Pattern Disturbance</b>	Is an Impact Study needed?	Yes
	Is Remediation needed?	Yes
<b>Facility Expenses</b>	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
<b>Permit and Filing Costs</b>	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	No
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	No
	FCC Special Temporary Authority Application	No
<b>Other Miscellaneous Expenses</b>	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	No
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

<b>Other Expenses</b>	<b>Other Expenses Not Listed</b>
	Information not provided.

Cost  
Information

Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-30	\$873,050.00	\$802,513.83		\$377,484.14	
Additional Interior RF System	<i>\$140,000.00</i>	\$140,000.00	N/A	N/A	N/A
3" Rigid Conduit and Wiring (Cost per foot)	\$5,000.00	\$4,900.00	N/A	N/A	N/A
Switchgear - industrial 800 amp	\$37,150.00	\$36,300.00	N/A	N/A	N/A
Transformer 3 phase /480v - 150 KVA	\$24,900.00	\$24,300.00	N/A	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	\$666,000.00	\$597,013.83	See quotes attached to Invoice JW30004583V. 1	\$377,484.14	N/A
Sub-total	\$873,050.00	\$802,513.83	N/A	\$377,484.14	N/A
Total for all systems	\$2,692,303.00	\$2,330,688.95	N/A	\$666,218.71	N/A

Components

Actual Information	
Description	File Name

Additional Interior RF System	Information not provided.
3" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
Transformer 3 phase/480v - 150 KVA	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 14.2 - 20 kW	<div> <div> <b>Component Description:</b> </div> <div> Gates inv  #JW30004583V.2  Primary Transmitter  pmt 2  UL20190422jgv1 </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$188,742.07 </div> </div>
	<div> <div> <b>Component Description:</b> </div> <div> Down Payment for  reimbursable  portion of Upgrade  transmitter </div> </div> <div> <div> <b>Amount:</b> </div> <div> \$188,742.07 </div> </div>

## Cost Information

### Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Interim Antenna ALP24M2-HSOC-24</b>	<b>\$230,720.00</b>	<b>\$56,623.25</b>		<b>\$28,311.62</b>	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	\$184,500.00	\$56,623.25	See quote attached to Invoice WEAO-001	\$28,311.62	waiting for unlock
Sweep test of existing antenna	\$6,550.00	\$0.00	Included in antenna cost	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,000.00	\$0.00	Not needed for Flex line connection	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$22,550.00	\$0.00	Included in antenna cost	N/A	N/A

Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	\$5,120.00	\$0.00	Included in antenna cost	N/A	N/A
<b>Primary Antenna TFU-20ETT /VPR O4</b>	<b>\$300,050.00</b>	<b>\$217,604.00</b>		<b>\$81,676.80</b>	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$12,000.00	\$11,700.00	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	\$281,500.00	\$199,504.00	N/A	\$81,676.80	N/A
Sweep test of existing antenna	\$6,550.00	\$6,400.00	N/A	N/A	N/A
<b>Sub-total</b>	<b>\$530,770.00</b>	<b>\$274,227.25</b>	<b>N/A</b>	<b>\$109,988.42</b>	<b>N/A</b>
<b>Total for all systems</b>	<b>\$2,692,303.00</b>	<b>\$2,330,688.95</b>	<b>N/A</b>	<b>\$666,218.71</b>	<b>N/A</b>

## Components

Actual Information		
Description	File Name	
UHF - Lower Power Side Mount, One station - 200-500 kW, horizontally polarized	<b>Component Description:</b>	Deposit for Interim Antenna
	<b>Amount:</b>	\$28,311.62
	<b>Component Description:</b>	50pct down payment Auxiliary antenna
	<b>Amount:</b>	\$58,493.38
Sweep test of existing antenna	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
Side mount brackets for high power antennas (if not included in antenna base cost)	Information not provided.	
Pattern scatter analysis for side mount high/med power antennas (if not included in antenna base cost)	Information not provided.	
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	Information not provided.	
UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	<b>Component Description:</b>	Elliptically Polarized, Top Mount TFU-20ETT /VPR O4 Omnidirectional Antenna for D24
	<b>Amount:</b>	\$81,676.80



Sweep test of existing antenna	Information not provided.
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Cost  
Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$85,680.00	\$60,363.51		\$30,181.75	
Flexible Air Transmission Line - dielectric, 5"	\$85,680.00	\$60,363.51	See quote attached to Invoice WEAO-001	\$30,181.75	N/A
Primary Transmission Line	\$191,580.00	\$186,880.00		\$77,190.40	
Sweep Tests	<i>\$6,400.00</i>	\$6,400.00	N/A	N/A	N/A
Rigid Transmission Line - copper, 6 1/8"	\$185,180.00	\$180,480.00	N/A	\$77,190.40	N/A
Sub-total	\$277,260.00	\$247,243.51	N/A	\$107,372.15	N/A
Total for all systems	\$2,692,303.00	\$2,330,688.95	N/A	\$666,218.71	N/A

Components

Actual Information	
Description	File Name
Flexible Air Transmission Line - dielectric, 5"	<div>Component Description: Down Payment Interim Transmission Line</div> <div>Amount: \$30,181.75</div>
Sweep Tests	Information not provided.

Rigid Transmission Line - copper, 6 1/8"	<div data-bbox="699 174 1005 210"><b>Component Description:</b></div> <div data-bbox="1139 174 1375 367">           Die inv #MAN01154            Transmission line            pmt 1            UL20190415jgv1  <b>Amount:</b> \$77,190.40         </div>
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Cost  
Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$740,095.00	\$739,904.36		\$3,950.00	
Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$25,600.00	\$25,000.00	N/A	\$3,950.00	N/A
Tall Tower (greater than 500')	\$205,000.00	\$214,909.36	See attached quote. Amount is the total for items 2 through 6.	N/A	N/A
Tower Helicopter Lift	<i>\$99,995.00</i>	\$99,995.00	See quote attached, item 1.	N/A	N/A
Major tower reinforcement /modifications	\$409,500.00	\$400,000.00	N/A	N/A	N/A
Sub-total	\$740,095.00	\$739,904.36	N/A	\$3,950.00	N/A
Total for all systems	\$2,692,303.00	\$2,330,688.95	N/A	\$666,218.71	N/A

Components

Actual Information Description	File Name
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Tower mapping for an undocumented/poorly documented tower and preparation of documentation necessary for tower load study	<div> <div>Component Description:</div> <div>Amount:</div> </div> <div> <div>Tower structural study for repack</div> <div>\$3,950.00</div> </div>
Tall Tower (greater than 500')	Information not provided.
Tower Helicopter Lift	Information not provided.
Major tower reinforcement /modifications	Information not provided.

## Cost Information

### Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Outside Professional Services</b>	<b>\$176,698.00</b>	<b>\$173,300.00</b>		<b>\$59,764.00</b>	
Additional Field Engineering Service, 17 Days	<i>\$34,000.00</i>	\$34,000.00	N/A	\$16,650.00	Additional Field Engineering Service WEAC Site Prep
Comprehensive coverage verification via field study, if needed	\$81,900.00	\$80,000.00	N/A	\$30,988.50	Comprehensive coverage verification via field study
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,050.00	\$2,000.00	N/A	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,050.00	\$2,000.00	N/A	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,170.00	\$7,000.00	N/A	\$7,000.00	Engineering study for new channel assignment and antenna development WEO

Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,070.00	\$3,000.00	N/A	\$3,000.00	Engineering section of Form FCC Construction Permit Application Main Facility
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,535.00	\$1,500.00	N/A	N/A	N/A
Prepare request for Special Temporary Authorization	\$1,535.00	\$1,500.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,120.00	\$5,000.00	N/A	\$1,789.50	Attorney section of Form FCC Construction Permit Application Main Facility
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,305.00	\$2,250.00	N/A	\$0.00	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,585.00	\$3,500.00	N/A	N/A	N/A

Address transition timing and coordination issues w/ other stations and wireless	\$2,560.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,560.00	\$2,500.00	N/A	\$336.00	Prepare or Review FCC Form 399 for Reimbursemer WEAO
Project management of the transition	\$27,258.00	\$26,550.00	N/A	N/A	N/A
<b>Sub-total</b>	\$176,698.00	\$173,300.00	N/A	\$59,764.00	N/A
<b>Total for all systems</b>	\$2,692,303.00	\$2,330,688.95	N/A	\$666,218.71	N/A

## Components

**Actual Information**  
**Description**

**File Name**



Additional Field  
Engineering Service, 17  
Days

**Component Description:**

Second and final  
50 pct payment for  
Demolition of old  
transmitter to make  
room for new  
WEAO post  
transition transmitter

**Amount:**

\$7,875.00

**Component Description:**

Additional Field  
Engineering  
Service WEAO Site  
Prep

**Amount:**

\$525.00

**Component Description:**

Additional Field  
Engineering  
Service WEAO Site  
Prep.

**Amount:**

\$375.00

**Component Description:**

50% down payment  
for Demolition of  
old transmitter to  
make room for new  
WEAO post  
transition transmitter

**Amount:**

\$7,875.00

<p>Comprehensive coverage verification via field study, if needed</p>	<table> <tr> <td data-bbox="697 100 1011 533"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1011 100 1428 533"> <p>Comprehensive Coverage Verification, Field Strength Measurements WEO \$30,988.50</p> </td></tr> <tr> <td data-bbox="697 533 1011 846"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1011 533 1428 846"> <p>Installment 1 of 2. Comprehensive coverage verification via field study WEO. \$30,986.75</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Comprehensive Coverage Verification, Field Strength Measurements WEO \$30,988.50</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Installment 1 of 2. Comprehensive coverage verification via field study WEO. \$30,986.75</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Comprehensive Coverage Verification, Field Strength Measurements WEO \$30,988.50</p>				
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Installment 1 of 2. Comprehensive coverage verification via field study WEO. \$30,986.75</p>				
<p>FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase</p>	<p>Information not provided.</p>				
<p>ASR modification (prepare FCC Form 854)</p>	<p>Information not provided.</p>				
<p>Perform engineering study for new channel assignment and antenna development</p>	<table> <tr> <td data-bbox="697 1193 1011 1626"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1011 1193 1428 1626"> <p>Perform engineering study for new channel assignment and antenna development WEO \$7,000.00</p> </td></tr> <tr> <td data-bbox="697 1626 1011 1937"> <p><b>Component Description:</b></p> <p><b>Amount:</b></p> </td><td data-bbox="1011 1626 1428 1937"> <p>Engineering study for new channel assignment and antenna development WEO \$7,000.00</p> </td></tr> </table>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Perform engineering study for new channel assignment and antenna development WEO \$7,000.00</p>	<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Engineering study for new channel assignment and antenna development WEO \$7,000.00</p>
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Perform engineering study for new channel assignment and antenna development WEO \$7,000.00</p>				
<p><b>Component Description:</b></p> <p><b>Amount:</b></p>	<p>Engineering study for new channel assignment and antenna development WEO \$7,000.00</p>				

<p>Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="703 174 1011 210"><b>Component Description:</b></td><td data-bbox="1145 174 1378 367">Engineering section of Form FCC Construction Permit Application Main Facility WEAO</td></tr> <tr> <td data-bbox="703 376 815 412"><b>Amount:</b></td><td data-bbox="1145 376 1262 412">\$3,000.00</td></tr> <tr> <td data-bbox="703 515 1011 551"><b>Component Description:</b></td><td data-bbox="1145 515 1378 748">Prepare engineering section of FCC Form 2100 (main), Construction Permit Application</td></tr> <tr> <td data-bbox="703 757 815 792"><b>Amount:</b></td><td data-bbox="1145 757 1262 792">\$3,000.00</td></tr> </table>	<b>Component Description:</b>	Engineering section of Form FCC Construction Permit Application Main Facility WEAO	<b>Amount:</b>	\$3,000.00	<b>Component Description:</b>	Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	<b>Amount:</b>	\$3,000.00
<b>Component Description:</b>	Engineering section of Form FCC Construction Permit Application Main Facility WEAO								
<b>Amount:</b>	\$3,000.00								
<b>Component Description:</b>	Prepare engineering section of FCC Form 2100 (main), Construction Permit Application								
<b>Amount:</b>	\$3,000.00								
<p>Prepare engineering section of FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>								
<p>Prepare request for Special Temporary Authorization</p>	<p>Information not provided.</p>								

<p>Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application</p>	<table> <tr> <td data-bbox="699 100 1109 369"> <p><b>Component Description:</b></p> </td><td data-bbox="1109 100 1428 369"> <p>Attorney section of Form FCC Construction Permit Application Main Facility</p> </td></tr> <tr> <td data-bbox="699 369 1109 481"> <p><b>Amount:</b></p> </td><td data-bbox="1109 369 1428 481"> <p>\$782.00</p> </td></tr> <tr> <td data-bbox="699 481 1109 750"> <p><b>Component Description:</b></p> </td><td data-bbox="1109 481 1428 750"> <p>Legal fees for CP application for main facility</p> </td></tr> <tr> <td data-bbox="699 750 1109 1064"> <p><b>Amount:</b></p> </td><td data-bbox="1109 750 1428 1064"> <p>\$789.00</p> </td></tr> <tr> <td data-bbox="699 1064 1109 1332"> <p><b>Component Description:</b></p> </td><td data-bbox="1109 1064 1428 1332"> <p>Attorney section of Form FCC Construction Permit Application Main Facility</p> </td></tr> <tr> <td data-bbox="699 1332 1109 1601"> <p><b>Amount:</b></p> </td><td data-bbox="1109 1332 1428 1601"> <p>\$218.50</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility</p>	<p><b>Amount:</b></p>	<p>\$782.00</p>	<p><b>Component Description:</b></p>	<p>Legal fees for CP application for main facility</p>	<p><b>Amount:</b></p>	<p>\$789.00</p>	<p><b>Component Description:</b></p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility</p>	<p><b>Amount:</b></p>	<p>\$218.50</p>
<p><b>Component Description:</b></p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility</p>												
<p><b>Amount:</b></p>	<p>\$782.00</p>												
<p><b>Component Description:</b></p>	<p>Legal fees for CP application for main facility</p>												
<p><b>Amount:</b></p>	<p>\$789.00</p>												
<p><b>Component Description:</b></p>	<p>Attorney section of Form FCC Construction Permit Application Main Facility</p>												
<p><b>Amount:</b></p>	<p>\$218.50</p>												
<p>Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application</p>	<p>Information not provided.</p>												
<p>Attorney Fees - Prepare and File request for Special Temporary Authorization</p>	<p>Information not provided.</p>												
<p>Address transition timing and coordination issues w/ other stations and wireless</p>	<p>Information not provided.</p>												

<p>Prepare and or review reimbursement form</p>	<table> <tr> <td data-bbox="689 87 1098 360"> <p><b>Component Description:</b></p> </td><td data-bbox="1098 87 1428 360"> <p>Prepare or Review FCC Form 399 for Reimbursement WEAO Attorney Review</p> </td></tr> <tr> <td data-bbox="689 360 1098 472"> <p><b>Amount:</b></p> </td><td data-bbox="1098 360 1428 472"> <p>\$336.00</p> </td></tr> <tr> <td data-bbox="689 472 1098 763"> <p><b>Component Description:</b></p> </td><td data-bbox="1098 472 1428 763"> <p>Prepare or Review FCC Form 399 for Reimbursement WEAO</p> </td></tr> <tr> <td data-bbox="689 763 1098 878"> <p><b>Amount:</b></p> </td><td data-bbox="1098 763 1428 878"> <p>\$2,500.00</p> </td></tr> </table>	<p><b>Component Description:</b></p>	<p>Prepare or Review FCC Form 399 for Reimbursement WEAO Attorney Review</p>	<p><b>Amount:</b></p>	<p>\$336.00</p>	<p><b>Component Description:</b></p>	<p>Prepare or Review FCC Form 399 for Reimbursement WEAO</p>	<p><b>Amount:</b></p>	<p>\$2,500.00</p>
<p><b>Component Description:</b></p>	<p>Prepare or Review FCC Form 399 for Reimbursement WEAO Attorney Review</p>								
<p><b>Amount:</b></p>	<p>\$336.00</p>								
<p><b>Component Description:</b></p>	<p>Prepare or Review FCC Form 399 for Reimbursement WEAO</p>								
<p><b>Amount:</b></p>	<p>\$2,500.00</p>								
<p>Project management of the transition</p>	<p>Information not provided.</p>								

## Cost Information

### Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
<b>Other Expenses</b>	<b>\$94,430.00</b>	<b>\$93,500.00</b>		<b>\$7,660.00</b>	
MVPD Notification of Channel Change	<i>\$2,000.00</i>	\$2,000.00	N/A	\$1,935.00	N/A
Develop and air announcement of upcoming channel change	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$25,000.00</i>	\$25,000.00	N/A	N/A	N/A
Non-zoning permits	<i>\$3,000.00</i>	\$3,000.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,250.00	\$11,000.00	N/A	\$5,725.00	N/A
AM Pattern Disturbance -- Remedy	\$20,500.00	\$20,000.00	N/A	N/A	N/A
AM Pattern Disturbance -- Impact study	\$7,680.00	\$7,500.00	N/A	N/A	N/A

<b>Sub-total</b>	\$94,430.00	\$93,500.00	N/A	\$7,660.00	N/A
<b>Total for all systems</b>	\$2,692,303.00	\$2,330,688.95	N/A	\$666,218.71	N/A

## Components

Actual Information Description	File Name
MVPD Notification of Channel Change	<p><b>Component Description:</b> KGA inv #930-46 MVPD Notifications UL190429jgv1</p> <p><b>Amount:</b> \$1,935.00</p>
Develop and air announcement of upcoming channel change	Information not provided.
Equipment Delivery and Handling Charges	Information not provided.
Disposal Costs (for equipment and other waste, net of any salvage value)	Information not provided.
Non-zoning permits	Information not provided.
DTV Medical Facility Notification	<p><b>Component Description:</b> KGA inv #930-45 Medical Notifications UL190429jgv1</p> <p><b>Amount:</b> \$5,725.00</p>
AM Pattern Disturbance -- Remedy	Information not provided.
AM Pattern Disturbance -- Impact study	Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$2,692,303.00	\$2,330,688.95	\$666,218.71

Construction Status	Question	Response
	Is construction complete?	No



Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity.</li> <li>2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.</li> <li>3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p><b>Jeffrey C Gehman</b>  <i>Engineering Associate</i></p> <p>04/29/2019</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> <li>1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named entity acknowledges that all certifications and attached documentation are considered material.</li> <li>2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.</li> </ol>	

3. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
4. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
5. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.
6. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
7. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

**Jeffrey C  
Gehman**  
*Engineering  
Associate*

04/29/2019

## Attachments